

Studies of a Pilger Tube Cold-Rolling Mill, by  
W. Jakel, H. Neumann, W. Hofmann.

GERMAN, per, Neue Hutte, Vol VI, Feb 1961,  
pp 87-91.

RISI 2671

Sci - Engr

May 62

list 13<sup>3</sup>

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ALS - T-65-17157

Mechanical Properties of Martensitic Thirteen  
Percent Nickel Steel at Liquid Air Temperatures,  
H. Schumann.

IMAN, per, Neue Huette, Vol VI, Feb 1961,  
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BISI 2173

2 - Chem, Min/Met

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161,067

On the Possibility of Identifying Flakes in  
Forgings by the Pulse-Echo Ultrasonic Scanning  
Technique, by G. Beckmann.

GERMAN, per, Neue Hutte, Vol VI, No 2, 1961,  
pp 99-106.

HB 5278

Sci - Engr

161,068

Jul 61

(NY-6288)

New Analytical Methods in East German Nonferrous Metallurgy, by G. Ackermann, H. Bastius, 4 pp.

GERMAN, per, Neue Huette, Vol VI, No 2, 1961,  
p 122.

JPRS 9465

EEur - Germany

Econ

160, 585

Jul 61

(NY-6283)

Report of Lausitz Research Group, by J.  
Guenther, 5 pp.

GERMAN, per, Neue Huette, Vol VI, No 2, 1961,  
p 123.

JPRS 9465

EEur - Germany

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Service Performance and Applications of Hot-Strength  
12% Chromium Steel, by G. Kruger.

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pp 131-138.

MB 5143

Sci - Min/Metals

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Titanium Carbide-Based High-Temperature  
Materials, by C. Agte, G. Blum.

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1961, pp 139-145.

BB 5144

Sci - Chem  
Oct 61

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The Use of High Strength Steel Castings in Air-Craft Construction, by H. Tauscher, H. Fleischer.

GERMAN, per, Neue Hutte, Vol VI, 1961, pp 151-156.

BISI 2820

Sci - M/M  
Feb 63

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Measurement of E.M.F. Between Slag and Steel Bath  
and Its Application to Open-Hearth Process  
Control, by K. L. Kiesel.

GERMAN, per, Neue Hütte, Vol VI, Mar 1961,  
pp 157-166.

BIBI 2616

Sci - Engr

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Lrt 127

Method for the Separation of X Earth Acids  
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Acids With Use of Complexone III for the Separate  
Determination of Niobium and Tantalum in alloy  
Steels, by E. Grossfuss.

GERMAN, per, Neue Hutte, Vol VI, No 3,  
1961, pp 181-182.

HB 5182

Sci - Chem  
Oct 61

(SF-1857)

Mining and Mechanization of the Iron Ore Mines of  
the VEB Maxhuette Mining and Metallurgical Combine,  
Unterwellenborn, by Heinrich Taubert, 14 pp.

GERMAN, per, Neue Huette, No 4, 1961, pp 224-233.

JPRS 12070

Wur - E. Germany

184, 750

Econ

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Comparative Investigation and Evaluation of  
Different Methods of Determining Austenitic Grain  
Size, by J. Skarek, K. M. Ciha.

GERMAN, per, Neue Hutte, Vol VI, May 1961,  
pp 301-309.

BISI 2589

Sci - Min/Metals

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On the Detection of Non-Metallic Inclusions in  
Rolled Material Using Ultrasonics, by G. Beckmann,  
K. Spiegelberg.

GERMAN, per, Neue Mette, Vol VI, May 1961,  
pp 316-321.

BU81 2590

Sci - Phys

Mar 62

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Basic Studies of Fluid-Bed Reduction  
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U. Rabe.  
GERMAN, per, Neue Hütte, Vol 6, No 6,  
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HB 5254

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Jun 65

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GERMAN, per, Neue Rette, Vol VI, No Jun 1961,  
pp 349-358.

MISI 2479

Sci - Engr

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Mar 62

The Heat Treatment of Roller Bearing Steels Using  
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R. H. Scharnke, et al.

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pp 399-410.

BISI 2410

Art - Engg

180, 716

Jan 62

Hydration of Sintered Dolomite in Superheated  
Water Vapour as an Accurate and Rapid Method on  
Investigation, by W. Mannchen, W. Schulle.

GERMAN, per, Neue Hutte, Vol VI, Aug 1961,  
pp 500-506.

MISI 2711

Sci - Engr

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Measurement and Control of the Temperature of  
Heat-Treating Furnaces, by M. Richle.

GERMAN, per, Neue Mette, Vol VI, Aug 1961,  
pp 516-524.

BIBI 2607

Sci - Engr

Mar 62

List 126

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(SIR-1857)

Some Special Economic Aspects of Low Blast  
Furnace Management, by J. Tischendorf;  
15 pp.

GERMAN, per, Neue Ruhrtal, No 9, 1961,  
pp 540-544.

JPRS 12658

KBR - Germany  
Recon  
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183, 420

Profile Development in Blast Furnaces Due to  
Wear of Fireclay and Carbon Linings, by  
J. M. Holzhey.

GERMAN, per, Neue Hütte, Vol VI, Sep 1961,  
pp 553-557.

RISI 2708

Sci - Engr

Aug 62

2/1/62

List 145

Electro-Slag Remelting, by W. Richling.

GERMAN, per, Neue Hutte, Vol VI, Sep 1961,  
pp 565-572.

BISI 2608

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May 62

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(SF-1857)

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in the VEB Hettstedt Rolling Mill, by  
Gerhard Pupke, 11 pp.

GERMAN, per, Neue Hutte, No 9, 1961,  
pp 573-577.

JPR3 12658

EEur - Germany  
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Results of Investigations on the Possibilities of  
Automation of X-Ray Spectrographic Analysis, by  
R. Rotter, M. I. Klapach.

GERMAN, per, Neue Rente, Vol VI, Sep 1961,  
pp 588-591.

AISI 2709

Sci - Engr

210, 858

Sep 62

list 148

Tangermann, Ingrid,  
WETTABILITY IN OXIDE AND CARBIDE SYSTEMS.  
[1962] [14]p. 5 refs.  
Order from SLA \$1.10

62-18695

Trans. of Neue Hütte (East Germany) 1961, v. 6,  
no. 12, p. 767-771.

DESCRIPTORS: \*Cermets, Binders, Sintering, \*Aluminum compounds, Oxides, \*Molybdenum, \*Titanium compounds, Carbides, Metals, Alloys, Chromium, Manganese, Iron, Copper, Cobalt, Nickel.

Experimental investigations of the wettability of the base components of the cutting ceramic HC30 were carried out by the method of the sessile drop. The determination of the wettability characteristics of  $\text{Al}_2\text{O}_3$ ,  $\text{Mo}_2\text{C}$ , and  $\text{TIC}-\text{Mo}_2\text{C}$  (1:1) against metals, metal alloys, and metal oxides in different atmospheres--Ceramics, TT, v. 9, no. 12) (over)

62-18695

I. Tangermann, I.

Office of Technical Service

Effect of Oxide Content of Metal Powders Being  
Sintered, by W. Rutkowski.

GRIFFIN, per, Neue Hütte, Vol VI, No 12, 1961,  
pp 788-790.

HB 5559

Sci - Chem

May 62

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Experiments on the Control of Sulphuric Acid and  
Hydrochloric Acid Pickling Solutions by  
Electrolytic Conductivity Measurements, by  
E. Kilauch.

GERMAN, per, Neue Hütte, Vol VI, Dec 1961,  
pp 795, 796.

MISI 2745

Sci - Chem

2/1, 205

Aug 62  
list 146

Semi-Killed Steel Standardization, by F. Rebeling,  
GIRMAN, per, Neue Hütte, Vol VII, 1962, p 77.

\*BISI E 3076

Sci  
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Jan 63

Investigations Into the Vacuum Degassing of  
Liquid Steel, by L. Szoke.

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pp 94-102.

RISI 2836

sci - m/a

Jan 63

J 19, 823

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Examination of the As-Cast Structure of Heavy  
Forging Ingots, by K. L. Kiebel, K. Skuliu,  
O. Liebscher, et al.

GERMAN, per, Neue Butte, Vol VII, Feb 1962,  
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BIBI 2789

Sci - M/M  
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Shaping of the Heat-Treated Prestressing Steels  
St 140/160, by W. Lehnert.

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pp 164-166.

NIBI 3078

Sci - N/M  
Aug 63

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Practical Experience Gained in the Detection of  
Delta Ferrite in Austenitic Steels, by  
K Spiegelberg, G. Beckmann.

GERMAN, per, Neue Hütte, Vol VII, Mar 1962,  
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MISI 2918

Sci - M/m

Dec 62

214 : 12

list 158

Conditions for the Dissolution and Removal of  
Oxygen During the Deoxidation of Metal Melts,  
by A. M. Semarin, W. A. Mtchedlishvili.

GERMAN, per, Neue Hütte, Vol VII, Apr 1962,  
pp 206-213.

MEI 2998

Sci - M/M  
Jul 63

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Effect of Salts on Elimination of Non-Metallic Inclusions From [Liquid] Steel, by R. Peters, et al.

GERMAN, per, Neue Hütte, Vol VII, No 5, 1962,  
pp 283-286.

HB 5667

Sci - Chem

210, 861

Sep 62

Sup 136

Use of a Synthetic Hot Top of an Exothermic  
Mixture of Coke, K-Na Nitrate and Sawdust  
in the Casting of Steel Ingots, by K. Fellcht,  
K. Schmitz Schneider, et al.

GERMAN, per, Neue Hütte, Vol VII, No 5, 1962,  
pp 299-306.

HB 5669

Sci-M&M  
May 63

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Design, Capacity and Operation of Modern Rough  
Turning Machines, by K. Pellecht, E. Dietmar.

GERMAN, per, Neue Butte, Vol VII, July 1962,  
pp 395-402.

BIBI 3093

Sci - Engr  
Mar 63

224, 432

INVESTIGATION OF THE "AS-CAST" STRUCTURE OF A  
CONICAL 49-TON FORGING INGOT, BY K. SKUIN,  
K. L. KIESEL, W. PABST, ET AL.

GERMAN, PER, NEUE HUTTE, VOL VII, JUL 1962,  
PP 408-411.

BISI 2949

SCI - M/M

OCT 62

LIST 15<sup>4</sup>

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Contribution to the Elimination of Embrittlement  
in Transformer Sheet, by T. Bruggeman,  
L. Kuntz.

CHMANN, per, Memo Note, Vol 4 VII, No 7, 1962,  
pp 411-416.

RSWY 3986

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345, 392

Rapid determination of the silicon content in transformer steels by Physical methods, by H.W. Fenzke, E. Messe,  
GERMAN, per, Neue Hutte, No 7, 1962, pp 9-752  
CRL/T. 1750

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Sep 67

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Weld Deposit Metal Produced for Experimental  
Purposes by Electroslag Remelting, by  
V. Horn.

GERMAN, per, Neue Hütte, Vol VII, No 8, 1901,  
pp 504, 505.

HB 5876

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Improvement of the Coercive Force of Technical  
Soft Iron for Baling Construction, by G. Rasmann,  
H. Mich.

GERMAN, per, Neue Ritter, Vol VII, No 10, 1962,  
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BIBI 3071

Sci - N/M  
May 63

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Electrical Potential Differences Between Iron and  
Steel Melts and Liquid Slags, by K.W. Ludemann, H. W.  
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GERMAN, per, Metallurgie, Vol VII, 1962, pp 651-658.

RISI 3317

Sci - Elec  
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345, 135

The Influence of Increased Sulphur Content in the  
Burden of the Operation of a Blast Furnace, by  
G. Glanert, H. Striegel.

GERMAN, per, Mass Butte, Vol V1, Nov 1962,  
pp 658-664.

PPM 3250

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Sci - M/L  
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Experimental Aftertreatment of Liquid Pig  
Iron Outside the Blast Furnace, by R. Ebert,  
W. Wenzel.

GERMAN, per, Neue Hütte, Vol VII, No 11,  
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HB 5829

Sci-M/M

Nov 63

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The Use of Vacuum Metallurgy in the Steelworks  
of East Germany, by K. Werner,  
GERMAN, per, Neue Huette, Vol VII, No 11,  
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Experimental Determination of the Distribution of  
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L. Barbosa, M. J. Worniak.

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Sci - N/M  
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Effect of the Sulfur Content of Pig Iron Upon  
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F. Ebeling, H. J. Schulz.

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HB 5830

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July 63

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On the Determination of the Austenite Grain Size in  
Heat-Treatable Steels, by K. Skuin.

GERMAN, per, Neue Hütte, Vol VII, No 11, 1962,  
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HB 5831

Sci-MSN  
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229, 842

Investigation of the Performance of Oils and Oil  
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Strip Steel, by H. Kraut.

GERMAN, per, Metall Hütte, Vol VII, No 12, 1962.  
pp 729-736.

HB 5883

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FURNACE, BY M. VON ARDENNE, G. JAEGER, ET AL,  
6 PP.

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JPRS 18137

SCI - ENGR  
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B151 3239

A New Type of Combustion Process for the Precise  
Determination of Sulphur in Foundry Pig Iron,  
by H. Horn, E. Kendler.

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RIBI 3267

Sci - Chem, N/M  
Aug 63

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A New Rapid Method for the Colorimetric Determination  
of Sulphur in Metals, by W. Fischer, H. Bastius,

GERMAN, per, Neue Röttte, Vol VIII, Jan 1963,  
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Sci - M/M  
Metall 63

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The Complexometric Determination of Sulphur by the  
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A Contribution to the Drawing of Cold Pilgered  
Seamless Steel Tubes Without Mandrel, by J. Uvira.  
GERMAN, per, Neue Huette, Vol VIII, No 2, 1963,  
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BISI 3656

Sci - M/M  
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New Lubricants for Tube Drawing, With Special  
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BISI 8657

Sci - M/M  
May 64

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15TH ANNIVERSARY OF "WILHELM FLORIN" STEEL AND  
ROLLING MILL, HENNIGSDORF, BY KURT FELLCHT,  
10 PP.

GERMAN, PER, NEUE HUETTE, NO 3, 1963, PP 154-159.

JPRS 19528

EEUR - GERMANY  
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JUN 63

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International Powder Metallurgical Conference  
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Mathematical Statistics Used in Evaluating Optimum  
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Formation, by H. Bittermann, O. Kramer.  
GERMAN, per, Neue Huette, Vol VIII, No 4, 1963,  
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Sci - Engr, M/M  
Feb 64

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Effect of Cold Deformation and Tempering on  
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U-C Alloys, by G. Rassmann, O. Hankel.

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SICL 3020

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THE IRON AND STEEL INDUSTRY OF THE CZECHOSLOVAK  
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JPRS 19481

EEUR - CZECHOSLOVAKIA  
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Plant in the German Democratic Republic, by  
G. von Struve, H. Becher,  
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BISI 3768

Sci - Engr  
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Vacuum Casting in the Electron Beam Multi-Chamber  
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GERMAN, per, Neue Hütte, Vol VIII, No 3, 1963,  
pp 313-317.  
HB 6005

Sci-Mat/Met  
May 64

258,362

Oxide Inclusions in Electron-Beam Remelted  
Steels, R. Bernstein.

GERMAN, per, Neue Hütte, Vol VIII, No 6, 1963.  
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HB 6006

Sci-M/M  
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pp 333-339.

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Sci-M/M  
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On the Behavior of Heavy-Metal Borides Toward  
Sinter Metals, by I. Tangermann.

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Sci- W/M

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Dec 63

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by M. Knotek.  
GERMAN, per, Neue Huette, Vol VIII, No 7, 1963,  
pp 385-~~200~~391,

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Sci - Math & Engg Proces  
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Contribution to the Development of Nitrogen-Alloyed  
Steels, by H. Schultz.  
GERMAN, per, Neue Huette, Vol xVIII, No 7, 1963,  
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BMI 9997

Sci - M/M  
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The Deformation Behaviour of Iron-Silicon  
Alloys Containing 3 to 6 Per Cent Silicon, by  
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pp 403-406.

BISI 3395

Sci - M/M  
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R GERMAN, PER, NEUE HUTTE, VOL VIII, NO 8, 1963,  
PP 504-506.

JPRS 21654

EE-RUMANIA  
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NOV 63

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<p>Lindner, Erich, Wittig, Roland, and Plassler, Klaus, MANUFACTURING AND PROPERTIES OF ALNICO- ALLOYS WITH CRYSTAL ORIENTATION (Herstellung und Eigenschaften von Alnico-Legierungen mit Kristallorientierung). [1963] [18p] (foreign text included) 8refs Available on loan from SLA</p> <p>TT-64-14641</p> <p>Trans. of Neue Hütte (East Germany) 1963, v. 8, no. 9. p. 557-561.</p> <p>DESCRIPTORS: *Aluminum alloys, *Nickel alloys, *Cobalt alloys, Crystal growth, Crystal structure, Magnetic properties, Manufacturing methods,</p> <p>(Metallurgy, TT, v. 11, no. 9)</p>	<p>TT-64-14641</p> <p>I. Title: Alnico I. Lindner, E. II. Wittig, R. III. Plassler, K.</p> <p>Office of Technical Services</p>
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M. Hildebrand, H. Göthler.  
GERMAN, per, Neue Hütte, Vol VIII, No 10,  
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BISI 3818

Sci - Engr  
Sep 64

267,010

On the Work in the Field of Powder Metallurgy  
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Materials of the DAW for Berlin in Dresden, by  
F. Eisonkolb. 16 pp.  
GERMAN, per, Neue Hütte, No 10, 1963,  
pp 629-633. PI00012466  
FTB-17-65-1764

Sci/Materials  
Sep 66

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Influencing Possibilities and Limiting of  
Desulphurisation in the Smelting of Mild Steel in the  
Siemens-Martin Furnace, by H. John W. Gurlich.  
GERMAN, per, Neue Heimat, Vol X XVIII, No 11, 1963,  
pp 650-655.

Sci - M/M  
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BISI #3550  
GB/41/3530

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Experiments on the Enrichment of Liquid and  
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H. J. Eckstein, S. Behmer.  
GERMAN, par, Neue Huette, Vol VIII, No 11, 1963,  
pp 656-660.  
HB 6219

Sci-M & M  
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Examination of the Effect of Chemical  
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St.38b-2, by R. Müller.  
GERMAN, per, Neue Metall, Vol 8,  
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BISI 4157

EE-Ger  
Sci/Mgt  
May 65

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<p>Eitenberger, Dieter and Heisig, Ullrich. A SIMPLE INSTALLATION FOR METALLOGRAPHIC STRUCTURAL DEVELOPMENT THROUGH ION ETCHING OR DAMPING (Eine einfache Anordnung zur Metallographischen Gefügeentwicklung durch Ionenätzen oder Bedämpfen). [16p] (foreign text included) Order from SLA \$1.60</p> <p>TT-64-16395</p> <p>Trans. of Neue Hütte (East Germany) 1963, v. 8, no. 11, p. 673-677.</p> <p>(Metallurgy-Structural, TT, v. 12, no. 3)</p>	<p>TT-64-16395</p> <p>I. Eitenberger, D. U. Heisig, U.</p> <p>Office of Technical Services</p>	
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Hydrogen in Ferrosilicon, by S. Bohmke, W. Richling.  
GERMAN, per, Neue Hütte, Vol VIII, No 11, 1963,  
pp 693, 694.  
HB 6265

Sci - Mat/Met  
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Suitability of Tests for Non-Metallic  
Inclusion using Microscopic Methods of  
Evaluation, by H. J. Eckstein.  
GERMAN, per, Neue Hute, Vol 8, No 12, 1963,  
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GB/95

Sci -  
Jul 67                    334,533

A Rapid Method for the Determination of  
Oxygen in Steel During Steelmaking, by  
H. Mack.  
GERMAN, per, Neue Hütte, Vol 8, Dec. 1963,  
pp 756-759.  
BISI 4492

Sci/NAM  
Nov 65

292,065

Production of Pure Tellurium, by Ludwig Müller, 14 pp.  
GERMAN, per, Neue Hütte, No 1, 1964, pp 17-23.  
JPRS 23988

EE-Germany  
Econ  
Apr 64            253, 121

The Influence of the Melt and Pouring  
Conditions of the Holding Time Behavior  
of the High-Temperature 18Cr-3 Ni-Cr  
Cast Alloy, by Joachim Sennhumpf and  
Heinz Richter, 15 pp.  
GERMAN, per, Metallurgie, Vol 9, No 2,  
1964, pp 87-91. 1077139  
FTD-IT-64-129

Sci-M/M  
Jun 65

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Scope for Increased Output of Pipe Rolling in  
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by J. F. Schewakin.  
GERMAN, per, Neue Huette, Vol IX, No 2, 1964,  
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BISI 3847

Sci - Engr  
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Induction Preheating of Ferritic Steel Hollows to 150°C/  
350°C for Cold Pilgering, by T. Spittel, M. Hildebrand.  
GERMAN, per, Neue Huette, Vol IX, No 2, 1964,  
pp 99-103.  
BISI 3848

Sci - Engr  
Oct 64

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